

DEVAL L. PATRICK GOVERNOR TIMOTHY P. MURRAY LIEUTENANT GOVERNOR JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER

## The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

12/15/10

Ryan Mingo Assistant District Attorney, Suffolk County

Dear ADA Mingo,

Enclosed is the information you requested in regards to Commonwealth vs. are copies of the following:

. Included

- 1. Drug Analysis Laboratory Receipt.
- 2. Curriculum Vitae for Annie Khan, and Peter Piro.
- 3. Control Cards with analytical results for samples #

4. Analysis sheets with chemist's hand notations and test results.

5. GC/Mass Spectral analytical data for samples #



I, Annie Khan (Dookhan), was the custodial chemist and performed the preliminary testing and net weight for this sample. Peter Piro was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely

Annie Khan (Dookhan)

Chemist II

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6631

Annie.Khan@state.ma.us



CC #			
воок #	65		
PAGE #	115	•	

DRUG RECEIPT	PAGE # 115				
		STRUCTION #			
District/Unit D-4 DCU					
Name & Rank of Arresting Officer Soft Det.	, le	enan	ID#_ 10	652	
·					
DEFENDANT'S NAME	AD	DRESS	CITY	STATE	
			Dorchester	mo	
			·		
·			LAB U	ISE ONLY	
DESCRIPTION OF ITEMS SUBMITTED		GROSS QUANTITY	GROSS WEIGHT	ANALYSIS NUMBER	
Tan Powder (heroin)		2 p/b's	4.63 gr		
Tan Powder (heroin) Tan Powder (heroin) Heroin		a p/63	4.65 gm		
Heroin		4	5,59 pc		
	3				
				·	
To be completed by ECH payeon relieve	**************************************			And the state of t	
To be completed by ECU personnel only	. Wr	mode		1070	
Name and Rank of Submitting Officer		y/×~~,	ID#	1070	
Received by		<del></del>	Date 8. 9	10	
			ECU Control #		
BPD Form 0038-BIS-0907 (prev. 1753)	•			<b>€</b> ≤€€≥01	

#### Curriculum Vitae

### Annie Khan (Dookhan)

#### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry. University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.
- \*Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Maintenance and repairs of all analytical instruments.
- \*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- \* Responsible for the Quality Control/Quality Assurance program for the drug lab.
- \*Notary Public.
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- \*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice - Forensics Professionals.

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

#### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

## Curriculum Vitae

## Peter Piro

## **EDUCATION**

Boston Unversity B.A. in Chemistry and Minor in Biology, 1989 HONORS Magna Cum Laude, 3.6 GPA

Graduated with Distinction in Chemistry Valedictorian of the Chemistry Department

## **EXPERIENCE**

## Department of Public Health/State Laboratory Institute

Laboratory Supervisor I/Chemist III, II, I/ Assistant Analyst December 1991-Present Supervise the operation and maintenance of the Gas Chromatography/Mass Spectrometry Laboratory. Train staff and coordinate schedules. Analyze controlled substances for State and Federal law enforcement agencies. Develop, oversee, and make improvements to the GC/MS laboratory's quality assurance/quality control (QA/QC) program. Serve as the Technical Supervisor of the Drug Analysis Laboratory. Responsible for planning and implementing Quality Improvement (QI) projects. Make recommendations for protocols and procedures by developing methods so work can be performed in an accurate and efficient manner. Qualified as an expert witness in Massachusetts courts and U.S. District Court.

### Massachusetts Health Research Institute

Laboratory Technician September 1990-December 1991 Researched the seasonal and special occurrences of DSP and PSP in shellfish samples harvested from coastal waters and Georges Bank using cELISA and bioassays.

## TRAINING AND ORGANIZATIONS

- \* Completed a six-week training course by senior staff within the Department of Public Health Drug Analysis laboratory.
- \* Appointed Assistant Analyst by the Assistant Commissioner of Public Health in February 1991.
- \* Elected as a Regular Member to the Northeastern Association of Forensic Chemists on October 27<sup>th</sup> 1995 and a member of the Massachusetts Organization of State Engineers and Scientists.
- \* Completed training in Mass Spectrometry given by the Food and Drug Administration/Forensic Chemistry Center on November 2002.
- \* Completed training in Mass Spectrometry Troubleshooting and Maintenance, October 25<sup>th</sup> 2002, at Agilent Technologies.\* Notary Public since 1993.

Date Analyzed: 11-8-10 No. City: Boston D.C.U. Police Dept. Officer: P.O. MARGARET WAGGETT Def: Amount: Subst: SUB No. Cont: Cont: pb Date Rec'd: 08/04/2010 No. Analyzed: \ Gross Wt.: 4.63 Net Weight: 0 1 0 #Tests: UASD · 2PPin Prelim: Heron Findings: Date Analyzed: 11-8-10 No. City: Boston D.C.U. Police Dept. Officer: P.O. MARGARET WAGGETT Def: Subst: SUB Amount: Cont: pb No. Cont: 2 No. Analyzed: \ Date Rec'd: 08/04/2010 Net Weight: 0.09 Gross Wt.: 4.65 #Tests: UASO Prelim: 142000 Findings: Date Analyzed: 1-8-10 No. City: Boston D.C.U. Police Dept. Officer: P.O. MARGARET WAGGETT Def: Subst: SUB Amount: Cont: pb No. Cont: Date Rec'd: 08/04/2010 No. Analyzed: \

Net Weight: O · ነ ዓ Gross Wt.: 5.59

#Tests: MAO

Prelim: Hanon Findings:

## DRUG POWDER ANALYSIS FORM

No. of samples tested:	BENCY PSOS40 ANALYST AS DEVIdence Wt.
PHYSICAL DESCRIPTION:	Gross Wt ( 3 ): <u> </u>
Beige powdare	Systan & grossin 1. 1. Or o 121
· · · · · · · · · · · · · · · · · · ·	
· ·	Net Wt: 0.102cl
doubub	albe O
	. •
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt	Gold
Thiocyanate ( +)	Chloride
Marquis	TLTA ( )
Froehde's +	OTHER TESTS
Mecke's	
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS (Senon	RESULTS HOON
DATE	MS OPERATOR 739
	C1-30-1 TAD

# DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY	BOSYO ANALYST ASO
No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt (2): 0.6491
Beigg powdred subsi	Gross Wt (1): 0.3043
17 2 pbs	Pkg. Wt:
doububaggeQ	Net Wt: 0 . 0 995
	•
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt	Gold
Thiocyanate (+)	Chloride
Marquis +	TLTA ( )
Froehde's	OTHER TESTS
Mecke's +	
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS Jesos	RESULTS HENOUN
DATE 11-2-10	MS OPERATOR <u>838</u>
	DATE 11-8-10

# DRUG POWDER ANALYSIS FORM

SAMPLE# AGENCY_	BOSTON ANALYST ASO
No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt ( Y): 1.3440
Beige powdred su	SSTERILE Gross Wt (1): 0-4416
249 F	Pkg. W(:
triple baguera	Net Wt: 0.1955
	•
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt	Gold
Thiocyanate ( +)	Chloride
Marquis	OTHER TESTS
Mecke's	OTHER 1E919
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS Lego.	RESULTS Heron
DATE 11-2-10	MS OPERATOR Pte
	DATE 11-8-10

12-10-10

Information from Data File:

File Name : C:\msdchem\1\System7\11\_03\_10\752929.D

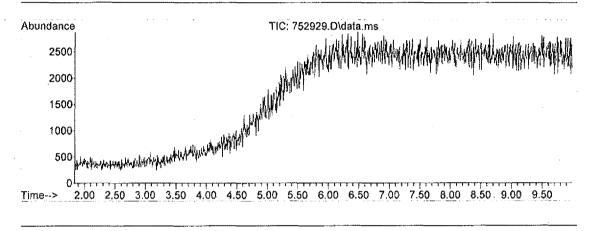
Operator : P. PIRO

Date Acquired : 3 Nov 2010 16:27

Sample Name : BLANK

Submitted by

Vial Number : 1 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time

Area

Area

Ratio %

File Name : C:\msdchem\1\System7\11\_03\_10\752930.D

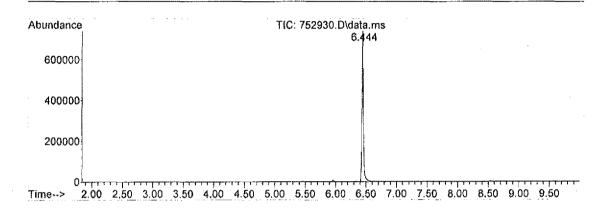
Operator : P. PIRO

Date Acquired : 3 Nov 2010 16:39 Sample Name : HEROIN STANDARD

Submitted by

Vial Number : 6

AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.444	1153024	100.00	100.00

File Name : C:\msdchem\1\System7\11\_03\_10\752930.D

Operator : P. PIRO

Date Acquired : 3 Nov 2010 16:39 Sample Name : HEROIN STANDARD

Submitted by :

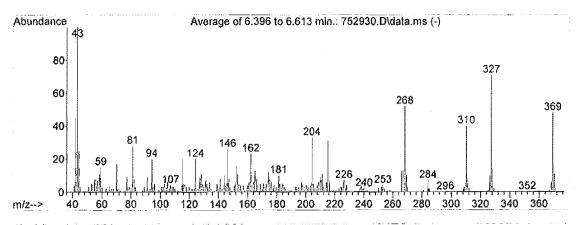
Vial Number : 6 AcquisitionMeth: DRUGS.M Integrator : RTE

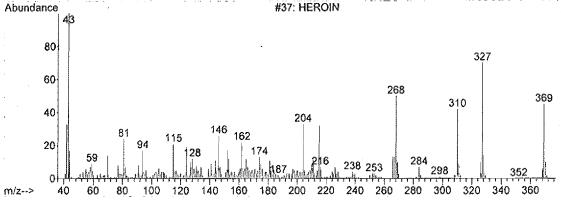
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C:\Database\NIST05a.L Minimum Quality: 80

C:\Database\PMW\_TOX2.L

;	PK#	RT	Library/ID	CAS#	Qual
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			HEROIN	000561-27-3	99
			HEROIN	000561-27-3	99



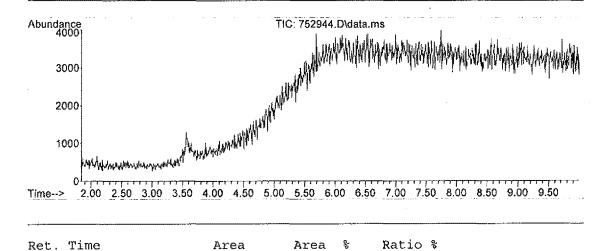


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Operator : P. PIRO

Date Acquired : 3 Nov 2010 19:36

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



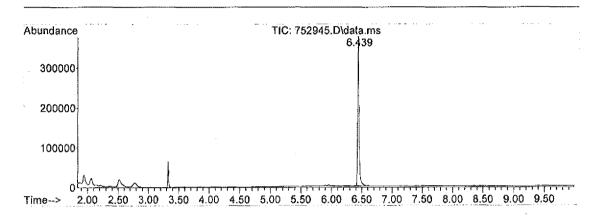
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Operator : P. PIRO

Date Acquired 3 Nov 2010 19:49

Sample Name

Submitted by ASD Vial Number 45 AcquisitionMeth: DRUGS.M Integrator : RTE



Řet. Time	Area	Area %	Ratio %
6.439	581263	100.00	100.00

File Name : C:\msdchem\1\System7\11 03 10\752945.D

Operator : P. PIRO

Date Acquired : \_ 3 Nov 2010 19:49

Sample Name :

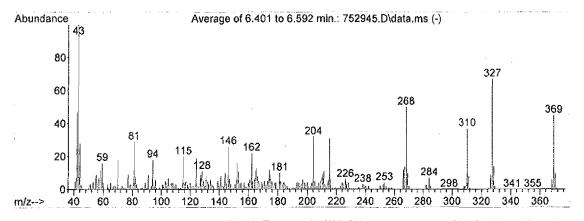
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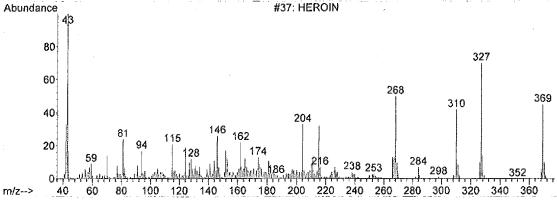
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST05a.L Minimum Quality: 80

C:\Database\PMW TOX2.L

 PK#	RT	Library/ID	CAS#	Qual
1	6.44	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		HEROIN	000561-27-3	96





File Name

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Operator

: P. PIRO

Date Acquired

: 3 Nov 2010 20:01

Sample Name Submitted by

: BLANK

Vial Number

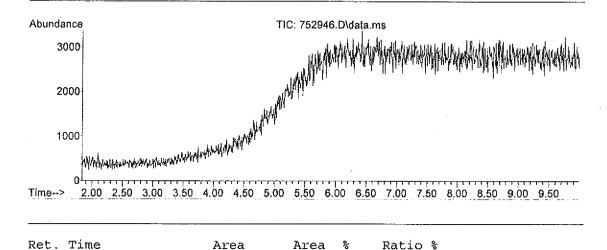
ASD

AcquisitionMeth: DRUGS.M

2

Integrator

: RTE



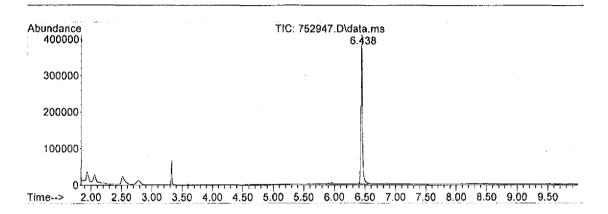
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Operator : P. PIRO

Date Acquired : 3 Nov 2010 20:14

Sample Name

Submitted by : ASD
Vial Number : 47
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.438	655675	100.00	100.00

File Name : C:\msdchem\1\System7\11\_03\_10\752947.D

Operator : P. PIRO

Date Acquired Nov 2010 20:14

Sample Name Submitted by

ASD 47

Vial Number AcquisitionMeth: DRUGS.M Integrator : RTE

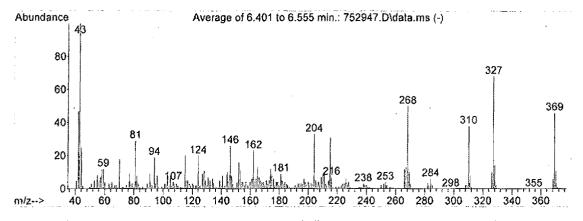
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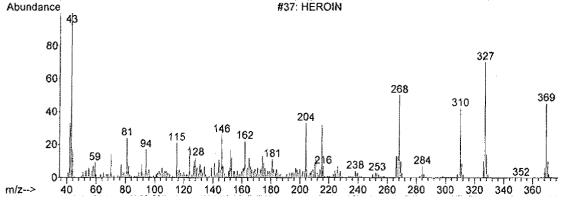
Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW\_TOX2.L

_	PK#	RT	Library/ID	CAS#	Qual
	1	6.44	C:\Database\SLI.L		
			HEROIN	000561-27-3	99
			HEROIN	000561-27-3	94



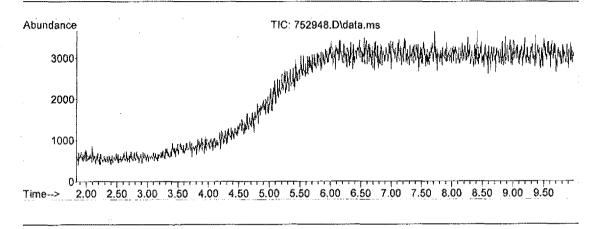


File Name : C:\msdchem\1\System7\11\_03\_10\752948.D

Operator : P. PIRO

Date Acquired : 4 Nov 2010 6:25

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time

Area

Area %

Ratio %

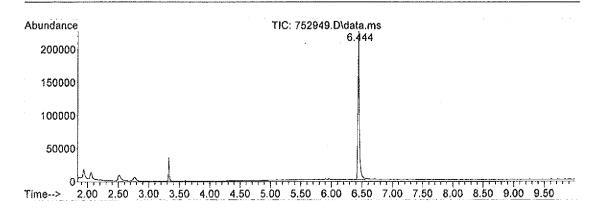
File Name : C:\msdchem\1\System7\11 03 10\752949.D

Operator : P. PIRO

Date Acquired : 4 Nov 2010 6:38

Sample Name :

Submitted by : ASD
Vial Number : 49
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.444	371763	100.00	100.00

: C:\msdchem\1\System7\11\_03\_10\752949.D File Name

Operator : P. PIRO

Date Acquired 4 Nov 2010 6:38

Sample Name

RT

PK#

Submitted by ASD Vial Number 49 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST05a.L

C:\Database\PMW TOX2.L

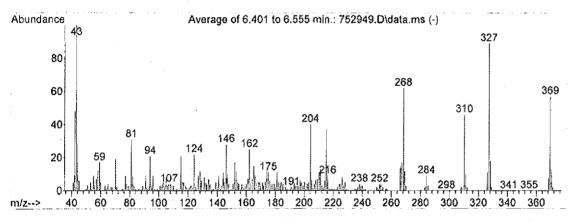
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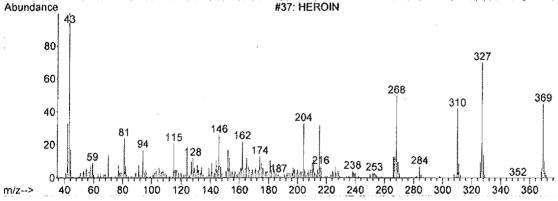
1 6.44 C:\Database\SLI.L

> HEROIN HEROIN

000561-27-3 99

000561-27-3 95





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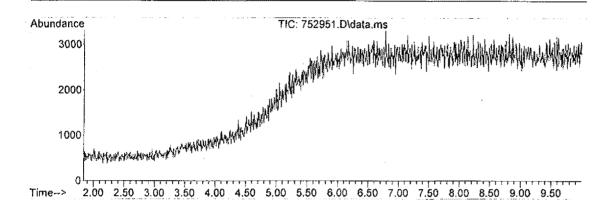
Operator : P. PIRO

Date Acquired : 4 Nov 2010 7:03

Sample Name : BLANK

Submitted by

Vial Number : 2 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time

Area

Area 8

Ratio %

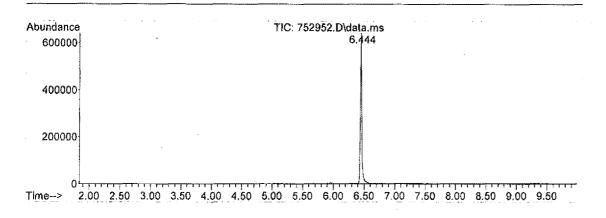
File Name : C:\msdchem\1\System7\11\_03\_10\752952.D

Operator : P. PIRO

Date Acquired : 4 Nov 2010 7:16 Sample Name : HEROIN STANDARD

Submitted by

Vial Number : 6
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.444	998319	100.00	100.00

File Name : C:\msdchem\1\System7\11 03 10\752952.D

Operator : P. PIRO

4 Nov 2010 Date Acquired 7:16 : HEROIN STANDARD Sample Name

Submitted by Vial Number

6 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

C:\Database\NIST05a.L

Minimum Quality: 80 Minimum Quality: 80

C:\Database\PMW\_TOX2.L

	PK#	RT	Library/ID	CAS#	Qual
1	6.44	C:\Database\SLI.L	000561 27 2	0.0	
			HEROIN	000561-27-3	99
			HEROIN	000561-27-3	99

